

Work Order ID 109778

November-29-13 9:01:51 AM

109778

Page 1

Item ID: 646.4002

Accept

N900040100

Setup

Start

NS1

Revision ID:

Item Name: AS350 Wiper Deflector

Stop

NS2

Start Date: 11/29/13 Start Qty: 1.00

1

Cust Item ID:

Required Date: 12/13/13 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: MLJ

Date: 13-11-29

Tooling:

Date:

Run

Start

NR1

QC: _____

Date: _____

SPC (Y/N):

Date: _____

Stop

NR2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
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646.4000	A	0.00	DAS 6 9-89	13/11/11	1	MLJ
100	DOCUMENT CONTROL	0.00				
100	Memo M. J.	0.00				
DC	Photocopy bluefile & type labels per PPP 646.4002					
Document Control						

110	Pick Kit	0.00				
110	Memo	0.00				
Packaging						
Packaging						

120	QC4- 100% Inspect kits for completeness	0.00	DAS 6 9-89	13/12/11	1	
120	Memo	0.00				
QC						
Quality Control						

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only

<p>Work Order: _____</p> <p>Part No. _____</p> <p>NCR No. _____</p>	DISPOSITION <input type="checkbox"/> Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved	AGAINST DEPARTMENT/PROCESS <input type="checkbox"/> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/> Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/> Water Jet <input type="checkbox"/> Prod. Eng. Coor. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear	General									
<input type="checkbox"/> Bending	<input type="checkbox"/> Bend	<input type="checkbox"/> Folio/Program	<input type="checkbox"/> Outside Dimensions	<input type="checkbox"/> Pressure/Forced						
<input type="checkbox"/> Centre Not Concentric	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Grain	<input type="checkbox"/> Over/Under tolerance	<input type="checkbox"/> Set-up						
<input type="checkbox"/> Cracks	<input type="checkbox"/> Broken/Damage/Defect	<input type="checkbox"/> Hardware	<input type="checkbox"/> Part Incorrect	<input type="checkbox"/> Temperature/Cure						
<input type="checkbox"/> Crimp/Kink/Ripple/Wave	<input type="checkbox"/> Burrs	<input type="checkbox"/> Inspection Incomplete/Unqualified	<input type="checkbox"/> Part Lost/Missing	<input type="checkbox"/> Weld						
<input type="checkbox"/> Cuffs	<input type="checkbox"/> Contamination	<input type="checkbox"/> Instructions Incomplete/Unclear	<input type="checkbox"/> Part Moved	<input type="checkbox"/> Wrong Stock Pulled						
<input type="checkbox"/> Crushing	<input type="checkbox"/> Countersink	<input type="checkbox"/> Misaligned/off center	<input type="checkbox"/> Positioned Wrong	<input type="checkbox"/> Other						
<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Mislabeled	<input type="checkbox"/> Power Loss/Surge							
<input type="checkbox"/> Inspection Strip in Tube	<input type="checkbox"/> Drawing	<input type="checkbox"/> Misread								
<input type="checkbox"/> Marks/Chatter	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Off-set								
<input type="checkbox"/> Turning Sequence	<input type="checkbox"/> Finish	<input type="checkbox"/> Out of Calibration								
<input type="checkbox"/> Wave/Twist in Tube	<input type="checkbox"/> Fit/Function	<input type="checkbox"/> Out of Sequence								

Work Order ID 109778

November-29-13 9:01:51 AM

109778

Page 2

Item ID: 646.4002

Accept

N900040100

Setup

Start

NS1

Revision ID:

Item Name: AS350 Wiper Deflector

Stop

NS2

Start Date: 11/29/13 Start Qty: 1.00

1

Cust Item ID:

Required Date: 12/13/13 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: _____

Date: _____

Tooling: _____

Date: _____

Run

Start

NR1

QC: _____

Date: _____

SPC (Y/N): _____

Date: _____

Stop

NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

130

130

Packaging

Packaging

0.00

(

13/12/11

DAS

6

9-89

Packaging

Memo

0.00

Identify and pack for shipping as per PPP 646.4002

Location: 40093

140

QC21- Final Inspection - Work Order Release

0.00

JH/PL 13-12-11

140

QC

Quality Control

Memo

0.00

*MF
13-12-10*

DQA: _____ Date: _____

Date:



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only

Work Order:				DISPOSITION		AGAINST DEPARTMENT/PROCESS					
				Rework <input type="checkbox"/>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>			
				Scrap <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coor. <input type="checkbox"/>	Quality <input type="checkbox"/>			
				Use-as-is <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>			
				Suspected Unapproved <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>				
Root Cause		Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector	
Design											
Doc/Data											
Equip/Tooling											
Handling/Pre											
Material											
Operator											
Offset/Setup											
Process											
Supplier											
Training											
Transport											
Unapproved											
FAULT CATEGORY											
Landing Gear			General								
<input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function		<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence		<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge		<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled				
	<input type="checkbox"/> Other										

Picklist Print

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Page 1

Work Order ID: 109778

109778
646 4002

Parent Item: 646.4002

Parent Item Name: AS350 Wiper Deflector

Start Date: 11/29/13

Required Date: 12/13/13

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.12.23 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
646.3410 *646 3410* LH Wiper Deflector		Manufactured	No				Each	38.0000	**	0	DAS 28 9-89	13-12-2	
							<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>				
							ST428B	38					
							125083	15					
							97822	23					
646.3411 *646 3411* RH Wiper Deflector		Manufactured	No				Each	37.0000	**	1	DAS 28 9-89	31-12-2	
							<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>				
							ST428B	37					
							125083	15					
							97823	22					
NAS1149F0332P NAS1149F0332P* Washer		Purchased	No				Each	5,860.000	**	16	DAS 28 9-89	31-12-2	
							<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>				
							GA	182					
							122063	182					
							ST294	158					
							122063	158					
							ST295	3					
							123352	3					
							st510	517					
							123900	517					
							ST510a	5000					
							125646	5000					

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only 

Work Order: _____	DISPOSITION	AGAINST DEPARTMENT/PROCESS					
Part No. _____	Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/>	Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/>	Water Jet <input type="checkbox"/> Prod. Eng. Coor. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/>	Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/>		
NCR No. _____							

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear	General			
Bending <input type="checkbox"/>	Bend <input type="checkbox"/>	Folio/Program <input type="checkbox"/>	Outside Dimensions <input type="checkbox"/>	Pressure/Forced <input type="checkbox"/>
Centre Not Concentric <input type="checkbox"/>	BOM/Route <input type="checkbox"/>	Grain <input type="checkbox"/>	Over/Under tolerance <input type="checkbox"/>	Set-up <input type="checkbox"/>
Cracks <input type="checkbox"/>	Broken/Damage/Defect <input type="checkbox"/>	Hardware <input type="checkbox"/>	Part Incorrect <input type="checkbox"/>	Temperature/Cure <input type="checkbox"/>
Crimp/Kink/Ripple/Wave <input type="checkbox"/>	Burrs <input type="checkbox"/>	Inspection Incomplete/Unqualified <input type="checkbox"/>	Part Lost/Missing <input type="checkbox"/>	Weld <input type="checkbox"/>
Cuffs <input type="checkbox"/>	Contamination <input type="checkbox"/>	Instructions Incomplete/Unclear <input type="checkbox"/>	Part Moved <input type="checkbox"/>	Wrong Stock Pulled <input type="checkbox"/>
Crushing <input type="checkbox"/>	Countersink <input type="checkbox"/>	Misaligned/off center <input type="checkbox"/>	Positioned Wrong <input type="checkbox"/>	
Heat Treat <input type="checkbox"/>	Cut Too Short <input type="checkbox"/>	Mislabeled <input type="checkbox"/>	Power Loss/Surge <input type="checkbox"/>	
Inspection Strip in Tube <input type="checkbox"/>	Drawing <input type="checkbox"/>	Misread <input type="checkbox"/>		
Marks/Chatter <input type="checkbox"/>	Drill Holes <input type="checkbox"/>	Off-set <input type="checkbox"/>		
Turning Sequence <input type="checkbox"/>	Finish <input type="checkbox"/>	Out of Calibration <input type="checkbox"/>		
Wave/Twist in Tube <input type="checkbox"/>	Fit/Function <input type="checkbox"/>	Out of Sequence <input type="checkbox"/>		

Picklist Print

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Page 2

Work Order ID: 109778

109778
646 4002

Parent Item: 646.4002

Parent Item Name: AS350 Wiper Deflector

Start Date: 11/29/13

Required Date: 12/13/13

MS21042L3

Purchased No Each 6,548.000

**

DAS
28
9-89

13-12-2

Nut

MS21042L3

DAS
6
9-89

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST314	1035	
M126036	35	
M127304	1000	
ST506	814	
123900	814	
ST509	3000	
M127410	3000	
ST510a	1699	
M126275	8	
M126333	1691	

MS27039-1-19

Purchased No Each 910.0000

**

DAS
28
9-89

DAS
31
9-89

MS27039-1-19

Screw

DAS
6
9-89

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST306	2	
122814	2	
ST504	852	
125654	852	
ST506	56	
124326	56	

MS27039-1-18

Purchased No Each 1,971.000

**

DAS
28
9-89

DAS
33
9-89

MS27039-1-18

Screw

6
9-89

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST306	1971	
124326	1971	

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION			AGAINST DEPARTMENT/PROCESS					
	Rework <input type="checkbox"/>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>				
	Scrap <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coor. <input type="checkbox"/>	Quality <input type="checkbox"/>				
	Use-as-is <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>				
Suspected Unapproved <input type="checkbox"/>			Large Fab <input type="checkbox"/>		Composite <input type="checkbox"/>				

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design <input type="checkbox"/>									
Doc/Data <input type="checkbox"/>									
Equip/Tooling <input type="checkbox"/>									
Handling/Pre <input type="checkbox"/>									
Material <input type="checkbox"/>									
Operator <input type="checkbox"/>									
Offset/Setup <input type="checkbox"/>									
Process <input type="checkbox"/>									
Supplier <input type="checkbox"/>									
Training <input type="checkbox"/>									
Transport <input type="checkbox"/>									
Unapproved <input type="checkbox"/>									

FAULT CATEGORY

Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General				
	<input type="checkbox"/> Bend	<input type="checkbox"/> Folio/Program	<input type="checkbox"/> Outside Dimensions	<input type="checkbox"/> Pressure/Forced	
	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Grain	<input type="checkbox"/> Over/Under tolerance	<input type="checkbox"/> Set-up	
	<input type="checkbox"/> Broken/Damage/Defect	<input type="checkbox"/> Hardware	<input type="checkbox"/> Part Incorrect	<input type="checkbox"/> Temperature/Cure	
	<input type="checkbox"/> Burrs	<input type="checkbox"/> Inspection Incomplete/Unqualified	<input type="checkbox"/> Part Lost/Missing	<input type="checkbox"/> Weld	
	<input type="checkbox"/> Contamination	<input type="checkbox"/> Instructions Incomplete/Unclear	<input type="checkbox"/> Part Moved	<input type="checkbox"/> Wrong Stock Pulled	
	<input type="checkbox"/> Countersink	<input type="checkbox"/> Misaligned/off center	<input type="checkbox"/> Positioned Wrong	<input type="checkbox"/> Other	
	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Mislabeled	<input type="checkbox"/> Power Loss/Surge		
	<input type="checkbox"/> Drawing	<input type="checkbox"/> Misread			
	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Off-set			
	<input type="checkbox"/> Finish	<input type="checkbox"/> Out of Calibration			
	<input type="checkbox"/> Fit/Function	<input type="checkbox"/> Out of Sequence			

Picklist Print

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Page 3

Work Order ID: 109778

Parent Item: 646.4002

Parent Item Name: AS350 Wiper Deflector

109778
646 4002

Start Date: 11/29/13

Start Qty: 1.00

Required Date: 12/13/13

Required Qty: 1.00

646.3814

Manufactured No

Each 43.0000

**

DAS
28
9.89

13-12-2

Wiper Bracket

DAS
6
9.89

600.1012

Purchased No

Location st535 125083 Loc Qty 43 43 Loc Code

Each 91.0000

**

DAS
28
9.89

DAS
31
9.89

600 1012

Sealant (#654 semkit)

DAS
6
9.89

MS24694-S53

Purchased No

Location ST364 m126248 m126972 m127099 Loc Qty 91 10 11 70 Loc Code

Each 313.0000

**

DAS
28
9.89

DAS
31
9.89

MS24694-S53

SCREW

DAS
6
9.89

NAS1149F0363P

Purchased No

Location ST303 113288 113359 Loc Qty 313 13 300 Loc Code

Each 858.0000

**

DAS
28
9.89

DAS
31
9.89

NAS1149F0363P

WASHER

DAS
6
9.89

Location ST295 122815 124555 125445 Loc Qty 858 58 600 200 Loc Code

Each

**

DAS
28
9.89

DAS
31
9.89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only

Work Order: _____			DISPOSITION		AGAINST DEPARTMENT/PROCESS										
Part No. _____			Rework <input type="checkbox"/>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>								
NCR No. _____			Scrap <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coor. <input type="checkbox"/>	Quality <input type="checkbox"/>								
			Use-as-is <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>								
			Suspected Unapproved <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>									
Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector						
Design Doc/Data Equip/Tooling Handling/Pre Material Operator Offset/Setup Process Supplier Training Transport Unapproved															
FAULT CATEGORY															
Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube				General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function						<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence		<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge		<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled	

APICAL
INDUSTRIES, INC.

ENGINEERING CHANGE NOTICE NO. 03079

SHEET 1 OF 1

DWG NO. 646.4000

REV: A

PREPARED BY: N.CAP

DATE: 03/21/11

EFFECT ON DWG
 INC. UNINC.

DWG TITLE: AS350 CABLE CUTTERS KIT

APPROVED BY:

P. Branc

MFG

Dave Bush

QC

Monica Loya

EFF: NEXT ORDER

TRANSACTION CODES (TC)
 ADD C-CREATE
 R-REVISE D-DELETE

REASON: CREATED FIXED AND CCK WITHOUT FIXED PROVISIONS KIT

SHEET 1, BOM, IS:

109778 M/C
13-11-29

REF	REF	REF	65	6475701	GPS MOUNT KIT	
6		64	6013151	VASHER	NS264453P	
3		63	6012911	SCREW	NS2644533	
2	2	62	6012637	SCREW	NS27039-1-16	
2	2	61	6012763	BOLT	NS-12A	
1	1	60	6463913	SHIM		
4	4	59	6463912	SHIM		
1	1	58	6463911	SHIM		
4	4	57	6463910	SHIM		
5	5	56	6001013	PRIMER		
8 FT	8 FT	55	6000129	VHB TAPE		
1	1	54	6001012	SEALANT	PR-1421 CLASS 3	
4004	4003	4002	4001	FIND #	PART #	
				DESCRIPTION	MATL	SPEC.

1	1	53	6000991	MAGNARD 6390 PART B		
9	8	52	6000990	MAGNARD 6390 PART A		
		51	6012826	BOLT	NS-12A	
		50	6463814	VIPER BRACKET		
		49	6012910	SCREW	NS27039-1-16	
2	2	48	6011365	SCREW	NS27039-1-16	
2	2	47	6463719	DOUBLER		
2	2	46	6463718	CUSTOM WASHER		
1	1	45	6463717	DOUBLER		
22	22	44	6011948	SCREW	NS27039-1-16	
2	2	43	6011952	SCREW	NS27039-1-16	
4	4	42	6011956	SCREW	NS27039-1-16	
2	2	41	6012829	SCREW	NS24641324	
2	2	40	6012831	RIVET	NS2423405-7	
1	1	39	6463716	Gauge BRACKET		
6	6	38	6011953	SCREW	NS27039-1-16	
2	2	37	6463715	STRUT DOUBLER		
2	2	36	6012824	BOLT	NS-3A	
36	36	35	6012277	RIVET	NS24641324	
18	18	34	6000995	NUTPLATE	NS26147-3	
3	3	33	6012565	RIVET	NS2478045-7	
1	1	32	6463813	STRUT BRACKET		
4	4	31	6012822	BOLT	NS-3A	
2	2	30	6463812	GUSSET BRACKET		
8	8	29	6012564	RIVET	NS24641324	
1	1	28	6463714	GUSSET		
		27	6463610	FILLER		
		26	6012830	SCREW	NS24641324	
2	2	25	6012825	BOLT	NS-3A	
		24	6463811	RADIUS BLOCK		
		23	6463712	CLIP		
		22	6463711	CLIP		
8	8	21	6012832	RIVET	NS2478045-7	
14	14	20	6012020	RIVET	NS2323-5-3	
10	10	19	6012823	BOLT	NS-3A	
		18	6012827	BOLT	NS-3A	
5	5	17	6012912	SCREW	NS24641324	
		16	6463713	GUSSET		
		15	6463210	SUPPORT		
		14	6463710	DOUBLER		
		13	6463110	CHANNEL		
8	55	12	6011624	LOCKNUT	NS260483	
16	116	11	6011607	WASHER	NS260483P	
		10	6463411	RH VIPER DEFLECTOR		
		9	6463410	LH VIPER DEFLECTOR		
		8	6463513	STRUT		
		7	6463512	STRUT		
		6	6463511	STRUT		
		5	6463510	STRUT		
2	2	4	6463810	BRACKET		
		3	6462910	REFLECTOR		
		2	6463011	LOWER CUTTER ASSY		
		1	6463301	UPPER CUTTER ASSY		
X			6464004	FIXED PROVISIONS KIT		
X			6464003	ONE SIDE OF THE VERTICLE FILLER		
			6464002	ANODIZED ALUMINUM-NEOPOLYMER VERTICLE FILLER		
		X	6464001	ACCESS CABLE CUTTERS KIT		
A004	A003	A002	A001	FIND #	PART #	
				DESCRIPTION	MATL	SPEC.

DOCUMENTS EFFECTED:

MDL INSTALL INSTRUC ICA BOM

CHANGE CATEGORY
 MAJOR MINOR

DER REVIEW REQUIRED
 YES NO

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only

Work Order: _____	DISPOSITION			AGAINST DEPARTMENT/PROCESS					
Part No. _____	Rework <input type="checkbox"/>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>				
NCR No. _____	Scrap <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coor. <input type="checkbox"/>	Quality <input type="checkbox"/>				
	Use-as-is <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>				
	Suspected Unapproved <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>					

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

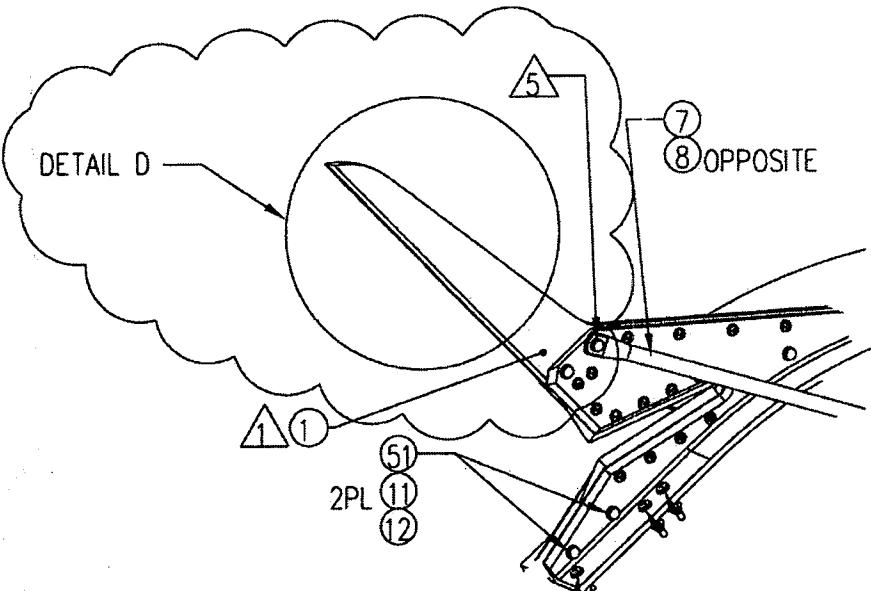
Landing Gear	General									
Bending <input type="checkbox"/>	Bend <input type="checkbox"/>	Folio/Program <input type="checkbox"/>	Outside Dimensions <input type="checkbox"/>	Pressure/Forced <input type="checkbox"/>						
Centre Not Concentric <input type="checkbox"/>	BOM/Route <input type="checkbox"/>	Grain <input type="checkbox"/>	Over/Under tolerance <input type="checkbox"/>	Set-up <input type="checkbox"/>						
Cracks <input type="checkbox"/>	Broken/Damage/Defect <input type="checkbox"/>	Hardware <input type="checkbox"/>	Part Incorrect <input type="checkbox"/>	Temperature/Cure <input type="checkbox"/>						
Crimp/Kink/Ripple/Wave <input type="checkbox"/>	Burrs <input type="checkbox"/>	Inspection Incomplete/Unqualified <input type="checkbox"/>	Part Lost/Missing <input type="checkbox"/>	Weld <input type="checkbox"/>						
Cuffs <input type="checkbox"/>	Contamination <input type="checkbox"/>	Instructions Incomplete/Unclear <input type="checkbox"/>	Part Moved <input type="checkbox"/>	Wrong Stock Pulled <input type="checkbox"/>						
Crushing <input type="checkbox"/>	Countersink <input type="checkbox"/>	Misaligned/off center <input type="checkbox"/>	Positioned Wrong <input type="checkbox"/>							
Heat Treat <input type="checkbox"/>	Cut Too Short <input type="checkbox"/>	Mislabeled <input type="checkbox"/>	Power Loss/Surge <input type="checkbox"/>							
Inspection Strip in Tube <input type="checkbox"/>	Drawing <input type="checkbox"/>	Misread <input type="checkbox"/>		Other <input type="checkbox"/>						
Marks/Chatter <input type="checkbox"/>	Drill Holes <input type="checkbox"/>	Off-set <input type="checkbox"/>								
Turning Sequence <input type="checkbox"/>	Finish <input type="checkbox"/>	Out of Calibration <input type="checkbox"/>								
Wave/Twist in Tube <input type="checkbox"/>	Fit/Function <input type="checkbox"/>	Out of Sequence <input type="checkbox"/>								

APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 03046				SHEET 1 OF 1
	DWG NO. 646.4000	REV: A	PREPARED BY J. JACKSON	DATE: 01/24/11	EFFECT ON DWG <input type="checkbox"/> INC. <input checked="" type="checkbox"/> UNINC.
	DWG TITLE: AS350 CABLE CUTTERS KIT				
	APPROVED BY: ENGR <i>Z Branc</i>	MFG <i>David Parker</i>	QC <i>Manuel Leyva</i>	EFF: NEXT ORDER	
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE		REASON: ADDED GPS MOUNT KIT, F/N 65. REVISED DRAWING VIEWS. ADDED NOTE <u>7</u> .			

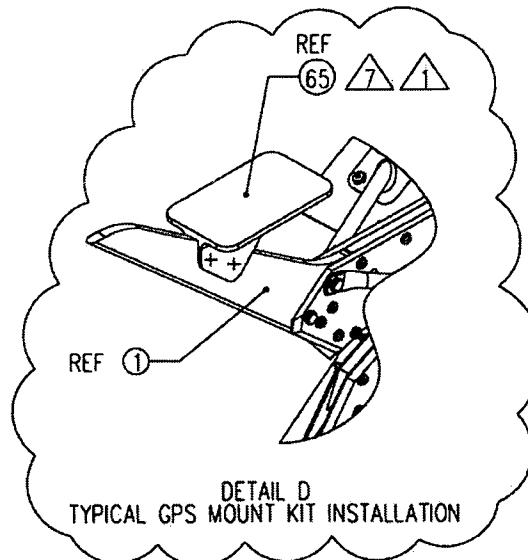
SHEET 1, ZONE B1 IS:

7 AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ONTO F/N 1.

SHEET 2, ZONE A4 IS:



SHEET 2, ZONE B2 IS:



F/N	A	647.5701	REF	GPS MOUNT KIT		
TC	PART NUMBER	QTY	DESCRIPTION		MATERIAL	SPECIFICATION
DOCUMENTS EFFECTED:			<input type="checkbox"/> MDL <input type="checkbox"/> INSTALL INSTRUC <input type="checkbox"/> ICA <input checked="" type="checkbox"/> BOM	<input type="checkbox"/> CHANGE CATEGORY <input type="checkbox"/> MAJOR <input checked="" type="checkbox"/> MINOR	<input type="checkbox"/> DER REVIEW REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____

Date: _____

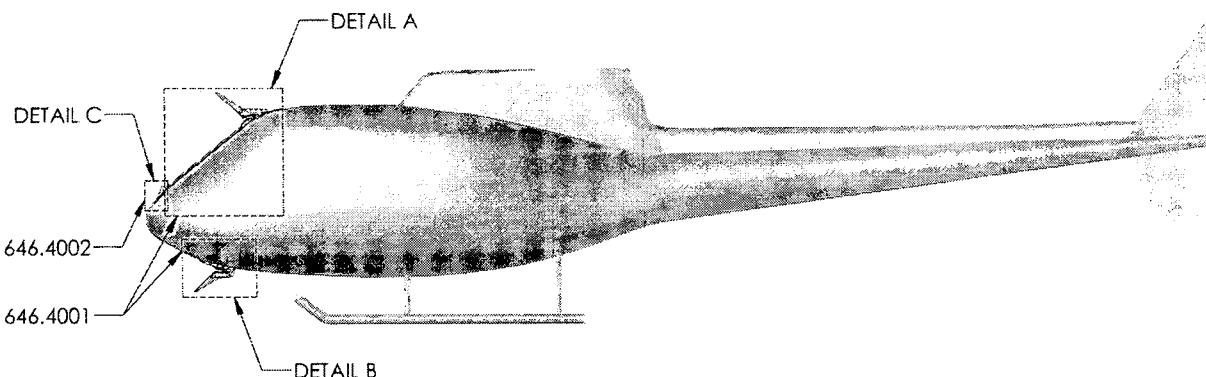
Work Order update only

Work Order: _____				DISPOSITION		AGAINST DEPARTMENT/PROCESS									
				Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/>	Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/>	Water Jet <input type="checkbox"/> Prod. Eng. Coor. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/>	Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/>							
Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector						
Design Doc/Data Equip/Tooling Handling/Pre Material Operator Offset/Setup Process Supplier Training Transport Unapproved															
FAULT CATEGORY															
Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube				General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function						<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence		<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge		<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled	

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NOTES:

- AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGE**
 - INSTALL F/N 14 WITH F/N 52 & 53**
 - 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR: MCMASTER-CARR P/N 75935A651**
 - 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE
VENDOR: R.S. HUGHES P/N 021200-24216**
 - REUSE FASTENERS FROM F/N 1**
 - USE WASHERS AS REQUIRED AS SHIMS TO OBTAIN BEST FITMENT**



6	64	601.3151	WASHER	HAS14MP25KSP
2	63	601.2911	SCREW	MS24694533
2	62	601.2637	SCREW	MS27039.1-16
2	61	601.2763	BOLT	AHG 12A
1	60	646.3913	SHIM	
4	59	646.3912	SHIM	
1	58	646.3911	SHIM	
		FIND. #	PART #	DESCRIPTION
				MATERIAL
				CODE

PENSIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	BECOPPORATE INC 6217W CEDAR ST. E 02/65	02/05/2010	P BRAVO

APICAL INDUSTRIES
2608 TEMPLE HEIGHTS DR.
OCEANSIDE, CA 92056-3512 (760)724-5300

AS350 CABLE CUTTERS KIT

30 | Page

B 07M16 646.4000 A

SCALE NONE SHEET 1 OF 4

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only

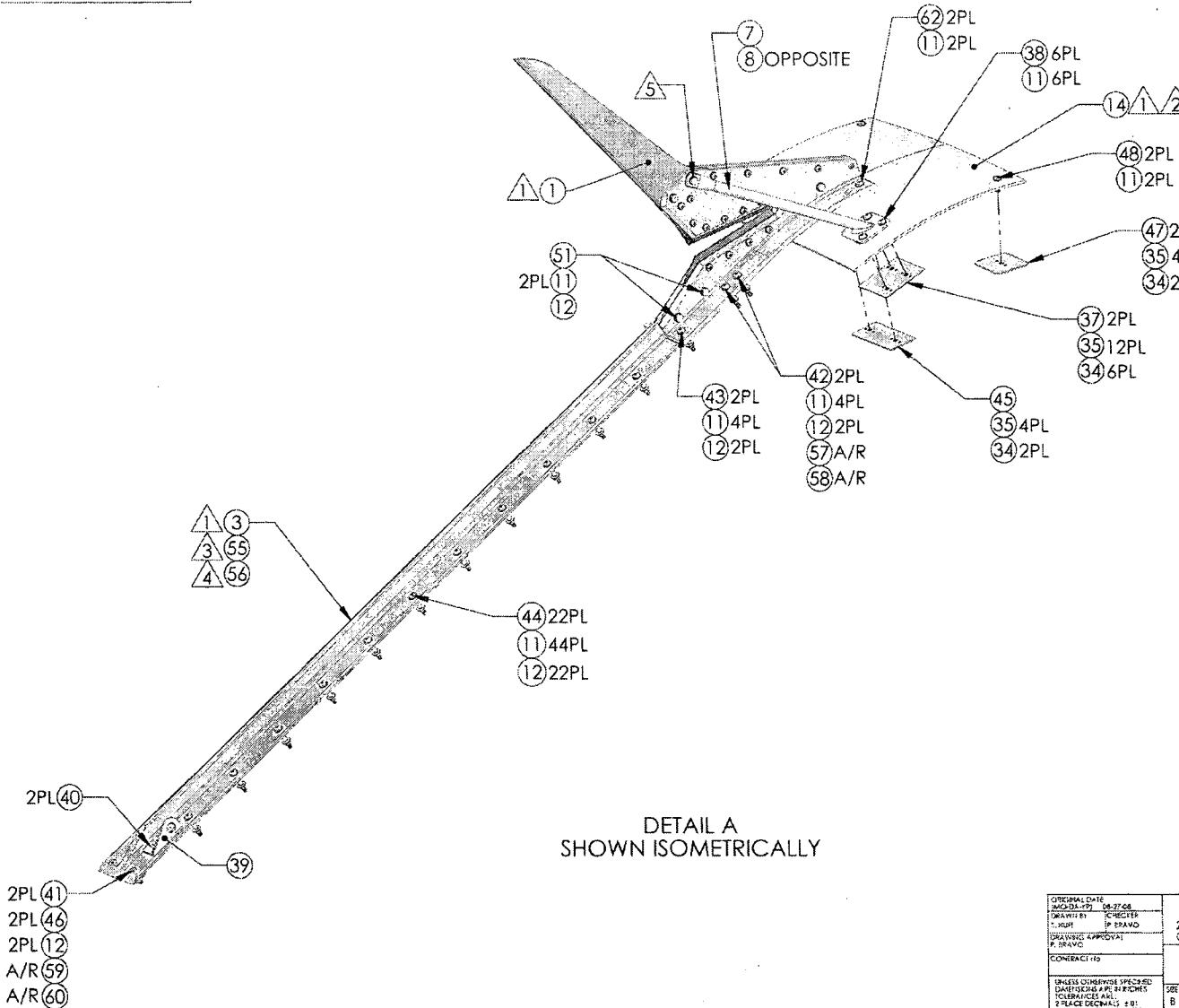
Work Order: _____			DISPOSITION			AGAINST DEPARTMENT/PROCESS					
			Rework <input type="checkbox"/>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>				
			Scrap <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coor. <input type="checkbox"/>	Quality <input type="checkbox"/>				
			Use-as-is <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>				
			Suspected Unapproved <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>					

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear	General									
Bending	<input type="checkbox"/>	Bend	<input type="checkbox"/>	Folio/Program	<input type="checkbox"/>	Outside Dimensions	<input type="checkbox"/>	Pressure/Forced		
Centre Not Concentric	<input type="checkbox"/>	BOM/Route	<input type="checkbox"/>	Grain	<input type="checkbox"/>	Over/Under tolerance	<input type="checkbox"/>	Set-up		
Cracks	<input type="checkbox"/>	Broken/Damage/Defect	<input type="checkbox"/>	Hardware	<input type="checkbox"/>	Part Incorrect	<input type="checkbox"/>	Temperature/Cure		
Crimp/Kink/Ripple/Wave	<input type="checkbox"/>	Burrs	<input type="checkbox"/>	Inspection Incomplete/Unqualified	<input type="checkbox"/>	Part Lost/Missing	<input type="checkbox"/>	Weld		
Cuffs	<input type="checkbox"/>	Contamination	<input type="checkbox"/>	Instructions Incomplete/Unclear	<input type="checkbox"/>	Part Moved	<input type="checkbox"/>	Wrong Stock Pulled		
Crushing	<input type="checkbox"/>	Countersink	<input type="checkbox"/>	Misaligned/off center	<input type="checkbox"/>	Positioned Wrong	<input type="checkbox"/>			
Heat Treat	<input type="checkbox"/>	Cut Too Short	<input type="checkbox"/>	Mislabeled	<input type="checkbox"/>	Power Loss/Surge	<input type="checkbox"/>	Other		
Inspection Strip in Tube	<input type="checkbox"/>	Drawing	<input type="checkbox"/>	Misread	<input type="checkbox"/>		<input type="checkbox"/>			
Marks/Chatter	<input type="checkbox"/>	Drill Holes	<input type="checkbox"/>	Off-set	<input type="checkbox"/>		<input type="checkbox"/>			
Turning Sequence	<input type="checkbox"/>	Finish	<input type="checkbox"/>	Out of Calibration	<input type="checkbox"/>		<input type="checkbox"/>			
Wave/Twist in Tube	<input type="checkbox"/>	Fit/Function	<input type="checkbox"/>	Out of Sequence	<input type="checkbox"/>		<input type="checkbox"/>			

1 2 3 4 5 6 7 8
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THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS FORBIDDEN.



ORIGINAL DATE	08-27-08
DRAWN BY	J. SCHETTER
REV'D	P. BRAVO
DRAWING APPROVAL	P. BRAVO
CONTRACT NO.	
UNLESS OTHERWISE SPECIFIED DATE THIS DRAWING IS DUE TO BE READABLE 2 PLACE DECIMALS #0. 1 PLACE DECIMALS #00 ANGLES ± 10'	
SEE CASE CODE	Dwg. No
B 07M26	646.4000
SCALE	NONE
REV	A
AS350 CABLE CUTTERS KIT	
SHEET	2 OF 4

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____

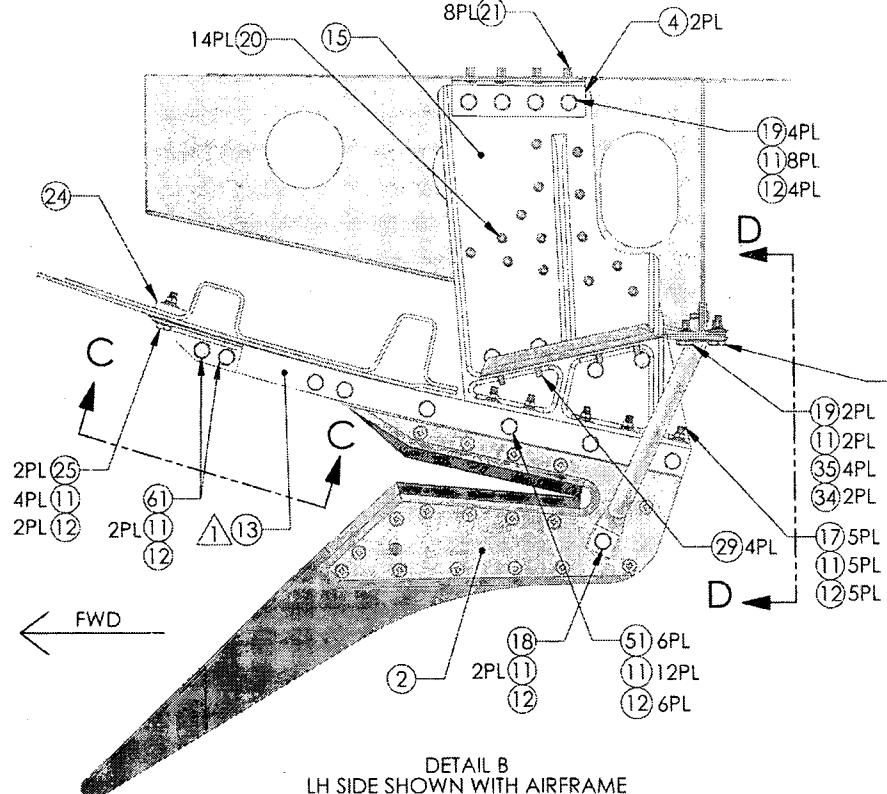
Date: _____

Work Order update only

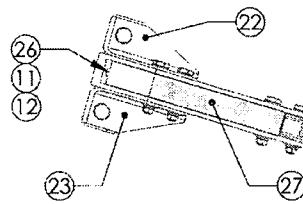
Work Order: _____			DISPOSITION			AGAINST DEPARTMENT/PROCESS						
Part No. _____ NCR No. _____			Rework <input type="checkbox"/>	Scrap <input type="checkbox"/>	Use-as-is <input type="checkbox"/>	Suspected Unapproved <input type="checkbox"/>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Quality <input type="checkbox"/>	Other <input type="checkbox"/>
Root Cause	Date	Step	Qty	Description of work order update or non-conformance		Initial Chief Eng	Action Description		Sign & Date	Verification	QC Inspector	
Design Doc/Data Equip/Tooling Handling/Pre Material Operator Offset/Setup Process Supplier Training Transport Unapproved												
FAULT CATEGORY												
Landing Gear	General			Folio/Program Grain Hardware Inspection Incomplete/Unqualified Instructions Incomplete/Unclear Misaligned/off center Mislabeled Misread Off-set Out of Calibration Out of Sequence			Outside Dimensions Over/Under tolerance Part Incorrect Part Lost/Missing Part Moved Positioned Wrong Power Loss/Surge			Pressure/Forced Set-up Temperature/Cure Weld Wrong Stock Pulled Other		
	<input type="checkbox"/> Bending	<input type="checkbox"/> Bend	<input type="checkbox"/> Folio/Program	<input type="checkbox"/> Outside Dimensions	<input type="checkbox"/> Pressure/Forced							
	<input type="checkbox"/> Centre Not Concentric	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Grain	<input type="checkbox"/> Over/Under tolerance	<input type="checkbox"/> Set-up							
	<input type="checkbox"/> Cracks	<input type="checkbox"/> Broken/Damage/Defect	<input type="checkbox"/> Hardware	<input type="checkbox"/> Part Incorrect	<input type="checkbox"/> Temperature/Cure							
	<input type="checkbox"/> Crimp/Kink/Ripple/Wave	<input type="checkbox"/> Burrs	<input type="checkbox"/> Inspection Incomplete/Unqualified	<input type="checkbox"/> Part Lost/Missing	<input type="checkbox"/> Weld							
	<input type="checkbox"/> Cuffs	<input type="checkbox"/> Contamination	<input type="checkbox"/> Instructions Incomplete/Unclear	<input type="checkbox"/> Part Moved	<input type="checkbox"/> Wrong Stock Pulled							
	<input type="checkbox"/> Crushing	<input type="checkbox"/> Countersink	<input type="checkbox"/> Misaligned/off center	<input type="checkbox"/> Positioned Wrong	<input type="checkbox"/> Other							
	<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Mislabeled	<input type="checkbox"/> Power Loss/Surge								
	<input type="checkbox"/> Inspection Strip in Tube	<input type="checkbox"/> Drawing	<input type="checkbox"/> Misread	<input type="checkbox"/>								
	<input type="checkbox"/> Marks/Chatter	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Off-set	<input type="checkbox"/>								
	<input type="checkbox"/> Turning Sequence	<input type="checkbox"/> Finish	<input type="checkbox"/> Out of Calibration	<input type="checkbox"/>								
	<input type="checkbox"/> Wave/Twist in Tube	<input type="checkbox"/> Fit/Function	<input type="checkbox"/> Out of Sequence	<input type="checkbox"/>								

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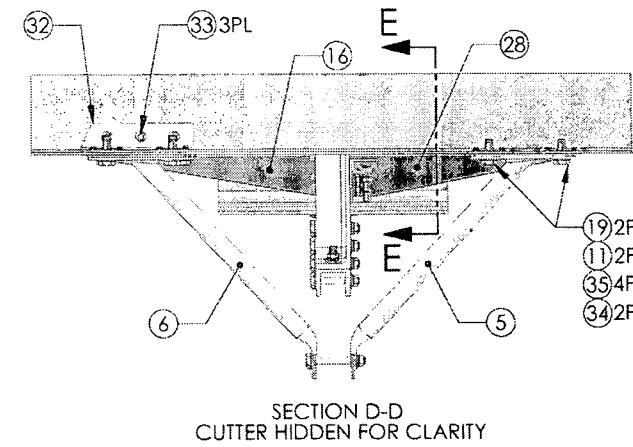
REF	DESCRIPTION	DATE	APPROVED



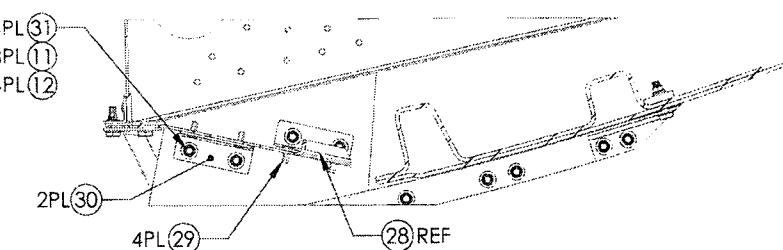
DETAIL B
LH SIDE SHOWN WITH AIRFRAME



SECTION C-C



SECTION D-D
CUTTER HIDDEN FOR CLARITY



SECTION E-E

DRAWN BY	CHIEF2
S. HILL	F. BRAVO
DRAWING APPROVAL	
DATE 20-22-08	
CONTRACT NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ± .01 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 ANGLES ± 5°	
REV. B	07M16
SCALE NONE	Dwg No. 646.4000
AS350 CABLE CUTTERS KIT	
SHEET 3 OF 4	

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

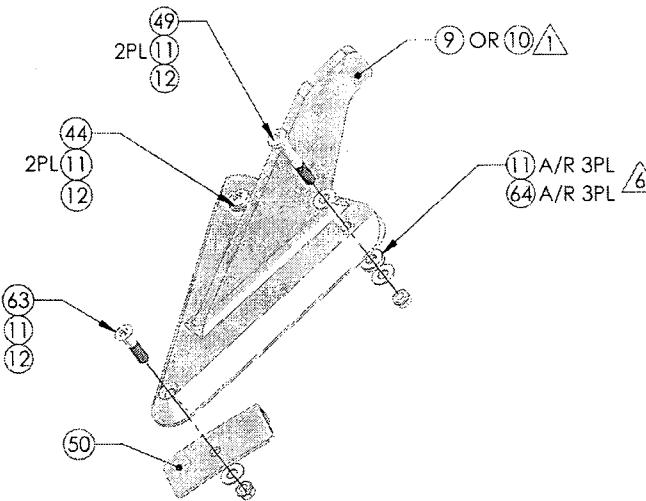
Work Order update only 

Work Order: _____ Part No. _____ NCR No. _____				DISPOSITION		AGAINST DEPARTMENT/PROCESS					
				Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/>	Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/>	Water Jet <input type="checkbox"/> Prod. Eng. Coor. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/>	Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/>			
Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
Design											
Doc/Data											
Equip/Tooling											
Handling/Pre											
Material											
Operator											
Offset/Setup											
Process											
Supplier											
Training											
Transport											
Unapproved											
FAULT CATEGORY											
Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube				General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function		<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence				<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other	

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REVISIONS

DATE APPROVED



DETAIL C
LH SHOWN EXPLODED
RH OPPOSITE

CHARTER DATE	09-27-08
DRAWN BY	CHUCK P
S.H.P.	0-8400
DRAWING APPROVAL	
P-02/2008	
CONTACT NO.	
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
TOLERANCES ARE AS PER	
2 PLACE DECIMALS ± 0.05	
ANGLES ± 5°	

APICAL INDUSTRIES
2608 TEMPLE HEIGHTS DR.
OCEANSIDE, CA. 92058-3512 (760)724-5300

AS350 CABLE CUTTERS KIT

P/N	CAGE CODE	QNG NO	REV
B	07MZE	646.4000	A
SCALE NONE			
SHEET 4 OF 4			

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____

Date: _____

Work Order update only

<p>Work Order: _____</p> <p>Part No. _____</p> <p>NCR No. _____</p>	DISPOSITION <input type="checkbox"/> Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved	AGAINST DEPARTMENT/PROCESS <input type="checkbox"/> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab	<input type="checkbox"/> Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite	<input type="checkbox"/> Water Jet <input type="checkbox"/> Prod. Eng. Coor. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier	<input type="checkbox"/> Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other
---	--	---	--	--	--

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear	General			
<input type="checkbox"/> Bending	<input type="checkbox"/> Bend	<input type="checkbox"/> Folio/Program	<input type="checkbox"/> Outside Dimensions	<input type="checkbox"/> Pressure/Forced
<input type="checkbox"/> Centre Not Concentric	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Grain	<input type="checkbox"/> Over/Under tolerance	<input type="checkbox"/> Set-up
<input type="checkbox"/> Cracks	<input type="checkbox"/> Broken/Damage/Defect	<input type="checkbox"/> Hardware	<input type="checkbox"/> Part Incorrect	<input type="checkbox"/> Temperature/Cure
<input type="checkbox"/> Crimp/Kink/Ripple/Wave	<input type="checkbox"/> Burrs	<input type="checkbox"/> Inspection Incomplete/Unqualified	<input type="checkbox"/> Part Lost/Missing	<input type="checkbox"/> Weld
<input type="checkbox"/> Cuffs	<input type="checkbox"/> Contamination	<input type="checkbox"/> Instructions Incomplete/Unclear	<input type="checkbox"/> Part Moved	<input type="checkbox"/> Wrong Stock Pulled
<input type="checkbox"/> Crushing	<input type="checkbox"/> Countersink	<input type="checkbox"/> Misaligned/off center	<input type="checkbox"/> Positioned Wrong	<input type="checkbox"/> Other
<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Mislabeled	<input type="checkbox"/> Power Loss/Surge	
<input type="checkbox"/> Inspection Strip in Tube	<input type="checkbox"/> Drawing	<input type="checkbox"/> Misread		
<input type="checkbox"/> Marks/Chatter	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Off-set		
<input type="checkbox"/> Turning Sequence	<input type="checkbox"/> Finish	<input type="checkbox"/> Out of Calibration		
<input type="checkbox"/> Wave/Twist in Tube	<input type="checkbox"/> Fit/Function	<input type="checkbox"/> Out of Sequence		

APICAL
INDUSTRIES, INC.

ENGINEERING CHANGE NOTICE NO. 03079

SHEET 1 OF 1

DWG NO: 646.4000

REV: A

PREPARED BY: N.CAP

DATE: 03/21/11

EFFECT ON DWG
 INC. UNINC.

DWG TITLE: AS350 CABLE CUTTERS KIT

APPROVED BY:

ENGR: *P. Brano*

MFG:

David Barker

QC:

Thomas J. Sosa

EFF: NEXT ORDER

TRANSACTION CODES (TC)
A-ADD C-CREATE
R-REVISE D-DELETE

REASON: CREATED FIXED AND CCK WITHOUT FIXED PROVISIONS KIT

SHEET 1, BOM, IS:

REFERENCE ONLY

REF	REF	REF	65	6475701	GPS MOUNT KIT	
1	56	64	601351	VASHER	WASHER	
1	57	63	6012911	SCREW	NS2469433	
2	58	62	6012637	SCREW	NS27039-1-16	
2	59	61	6012763	BOLT	AKO-12A	
1	60	6463913	SHIM			
4	61	59	6463912	SHIM		
1	62	58	6463911	SHIM		
4	63	57	6463910	SHIM		
5	55	56	6001013	PRIMER		
8 FT	55	55	6001029	VHB TAPE		
1	54	54	6001012	SEALANT	PR-142 CLASS 3	
454	450	452	4001	FIND #	PART #	DESCRIPTION
						MATL. SPEC.

1	53	6001091	MAGNETIC 6359 PART B			
8	52	6001090	MAGNETIC 6359 PART A			
8	51	6012826	BOLT	AKO-12A		
1	50	6463814	VIPER BRACKET			
2	49	6012910	SCREW	NS27039-1-16		
2	48	601365	SCREW	NS27039-1-21		
2	47	6463719	DOUBLER			
2	46	6463718	CUSTOM WASHER			
1	45	6463717	DOUBLER			
22	44	6012948	SCREW	NS27039-1-16		
2	43	6012952	SCREW	NS27039-1-21		
4	42	6011956	SCREW	NS2469434		
2	41	6012829	SCREW	NS2469434		
2	40	6012831	RIVET	NS247RA025-7		
1	39	6463716	Gauge BRACKET			
6	38	601953	SCREW	NS27039-1-21		
2	37	6463715	STRUT DOUBLER			
2	36	6012824	BOLT	AKO-3A		
36	35	6012277	RIVET	NS247RA025-7		
18	34	6001095	NUTPLATE	NS247-3		
3	33	6012565	RIVET	NS247RA025-7		
1	32	6463813	STRUT BRACKET			
4	31	6012822	BOLT	AKO-3A		
2	30	6463812	GUSSET BRACKET			
8	29	6012564	RIVET	NS247RA025-6		
1	28	6463714	GUSSET			
1	27	6463610	FILLER			
1	26	6012830	SCREW	NS2469433		
2	25	6012825	BOLT	AKO-3A		
1	24	6463811	RADIUS BLOCK			
1	23	6463712	CLIP			
8	22	6463711	CLIP			
8	21	6012832	RIVET	NS247RA025-5		
14	20	6012020	RIVET	NS247-5-3		
10	19	6012823	BOLT	AKO-3A		
5	18	6012827	BOLT	AKO-3A		
5	17	6012912	SCREW	NS2469432		
1	16	6463713	GUSSET			
1	15	6463210	SUPPORT			
1	14	6463710	DOUBLER			
1	13	6463110	CHANNEL			
8	12	6011624	LOCKING	NS2469433		
18	11	6011607	WASHER	NS2469433		
1	10	6463411	RH VIPER DEFLECTOR			
1	9	6463410	LH VIPER DEFLECTOR			
1	8	6463513	STRUT			
1	7	6463512	STRUT			
1	6	6463511	STRUT			
1	5	6463510	STRUT			
2	4	6463810	BRACKET			
1	3	6462910	REFLECTOR			
1	2	6463001	LOWER CUTTER ASSY			
1	1	6463301	UPPER CUTTER ASSY			
X		6464004	FIXED PROVISIONS KIT			
X		6464003	ONE SIDE CUT KIT			
X		6464002	ONE SIDE KIT			
X		6464001	ASSEMBLED VIBRATOR KIT			
ASA	ASA2	ASA2	FIND #	PART #	DESCRIPTION	MATL. SPEC.

DOCUMENTS EFFECTED:

MDL INSTALL INSTRUC

ICA

BOM

CHANGE CATEGORY
 MAJOR MINOR

DER REVIEW REQUIRED
 YES NO

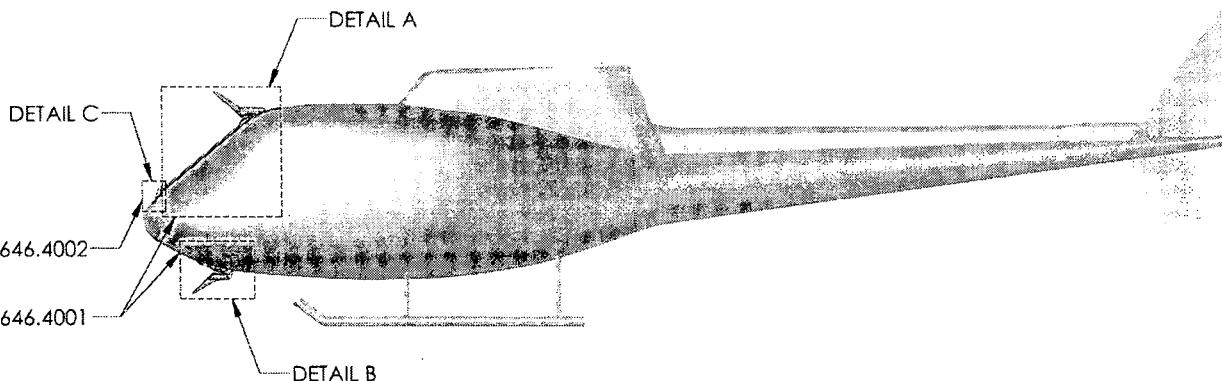
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NOTES:

- AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES**
 - INSTALL F/N 14 WITH F/N 52 & 53**
 - 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR : MCMASTER-CARR P/N 75935A651**
 - 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE
VENDOR: R.S. HUGHES P/N 021200-24216**
 - REUSE FASTENERS FROM F/N 1**
 - USE WASHERS AS REQUIRED AS SHIMS TO OBTAIN BEST FITMENT**



03046, 03079



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INCORPORATED ECRN-01195 (0535) 02/14/ & 02/15	02/08/2010	P. BRAVO

Work Order ID 109778

November-29-13 9:01:51 AM

109778

Page 1

Item ID: 646.4002

Accept

N900040100

Setup Start

NS1

Revision ID:

Item Name: AS350 Wiper Deflector

Stop

NS2

Start Date: 11/29/13 Start Qty: 1.00

1

Cust Item ID:

Required Date: 12/13/13 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan: MLJ

Date: 13-11-29

Tooling:

Date:

Run

Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr								
646.4000	A								

100		0.00							
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100

DOCUMENT CONTROL

DC

Document Control

Memo M, 10.

0.00

Photocopy bluefile & type labels per PPP 646.4002

110

Pick Kit

0.00

110

Memo

0.00

1X

DAS

28

9-89

13-12-2

Packaging

Packaging

120

QC4- 100% Inspect kits for completeness

0.00

120

Memo

0.00

QC

Quality Control